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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/649,143 08/26/2003

Lewis Hemphill **ENGINE-6** 5042

7590 07/29/2004 LEONARD TACHNER, A PROFESSIONAL LAW

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EXAMINER DOLINAR, ANDREW M

ART UNIT PAPER NUMBER

3747

DATE MAILED: 07/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)		
Office Action Summary		10/649,143	HEMPHILL, LEWIS		
		Examiner	Art Unit		
		Andrew M. Dolinar	3747		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)[Responsive to communication(s) filed on	<u>_</u> .			
2a)□	This action is FINAL . 2b)⊠ This	s action is non-final.			
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠	4) Claim(s) 1-16 is/are pending in the application.				
	4a) Of the above claim(s) is/are withdrawn from consideration.				
5)⊠	5)⊠ Claim(s) <u>1-5</u> is/are allowed. 6)⊠ Claim(s) <u>6 and 8-16</u> is/are rejected.				
·					
-	7) Claim(s) <u>7</u> is/are objected to.				
8)[_]	8) Claim(s) are subject to restriction and/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
44)[7]	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
11)	The oath or declaration is objected to by the E.	xaminer. Note the attached Office	Action or form PTO-152.		
Priority u	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
	e of References Cited (P10-892) e of Draftsperson's Patent Drawing Review (PT0-948)	Paper No(s)/Mail Da	te		
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal Pa 6) Other:	atent Application (PTO-152)		

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 11-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 11 and 14 recite the limitations "the existing cranking motor" and "the motor crankshaft". It is not clear what these limitations are intended to refer to since they have insufficient antecedent basis in the claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 6 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Holweg (DE 10006690 C1). As shown in Fig. 2, ring gear 34 is affixed to the crankshaft via clutch 27. Cranking motor 19 engages ring gear 34 via an intermediate gear train. See corresponding U.S. Patent No. 6,732,694 B2.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Holweg

(DE 10006690 C1). Holweg discloses the claimed invention as stated above except for

selecting a gear ratio as specified. It would have been an obvious matter of routing optimization

to one having ordinary skill in the art at the time the invention was made to construct the starter

arrangement of Holweg with a gear ratio selected as claimed. Where the general conditions of

a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable

ranges by routine experimentation. See In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235

(CCPA 1955).

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Holweg

(DE 10006690 C1) in view of Givan (US 4,573,364). Holweg discloses the claimed invention as

stated above except for the planetary gear arrangement. Givan teaches that it is known to

provide a starter with a planetary gear set. See Fig. 2. It would have been obvious to one

having ordinary skill in the art at the time the invention was made to provide the engine of

Holweg with a starter having a planetary gear set, as taught by Givan, in order to improve

starting torque.

Allowable Subject Matter

Claims 1-5 are allowed.

Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 11-16 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Brown (US 6,109,121) discloses an electric starter arrangement for motorcycles.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew M. Dolinar whose telephone number is (703) 308-1948. The examiner can normally be reached on Mon. - Thu. 7:45 - 6:15.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on (703) 308-1946. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew M. Dolinar Primary Examiner Art Unit 3747

AMD